

SEQUENCE LISTING

BK beta 2 amino acid, SEQ ID NO:1

5 MTAFPASGKKRETDYSDGDPDVLVHKRLPSSTGEDRAVMLGFAMMGFSVLMFFLLGTTILKPFMLSIQREESTCTA
IHTDIMDDWLDCAFTCGVHCHGQKYPCLQVFNLSHPGQKALLHYNEEAVQINPKCFYTPKCHQDRNDLLNSAL
DIKEFFDHKNGTFFSCFYSPASQSEDVILIKKYDQMAIFHCLFWPSLTLLGGALIVGMVRLTQHLSSLCEKYSTV
VRDEVGGKVPYIEQHQFKLCIMRRSKGRAEKS

10 BK beta 2 nucleic acid, SEQ ID NO: 2

ATGACAGCCTTTTCCTGCCTCAGGGAAGAAGAGAGAGACAGACTACAGTGATGGAGACCCACTAGATGTGCACAAG
AGGCTGCCATCCAGTACTGGAGAGGACCGAGCCGTGATGCTGGGGTTTGCCATGATGGGCTTCTCAGTCCTAATG
TTCTTCTTGCTCGGAACAACCATTTCTAAAGCCTTTTATGCTCAGCATTGAGAGAGAAGAATCGACCTGCACTGCC
ATCCACACAGATATCATGGACGACTGGCTGGACTGTGCCTTCACCTGTGGTGTGCACTGCCACGGTCAGGGGAAG
15 TACCCGTGTCTTCAGGTGTTTGTGAACCTCAGCCATCCAGGTGAGAAAGCTCTCCTACATTATAATGAAGAGGCT
GTCCAGATAAAATCCCAAGTGCTTTTACACACCTAAGTGCCACCAAGATAGAAATGATTGCTCAACAGTGCTCTG
GACATAAAAGAATTCTTCGATCACAAAATGGAACCCCTTTTCATGCTTCTACAGTCCAGCCAGCCAATCTGAA
GATGTCAATTCTTATAAAAAAGTATGACCAATGGCTATCTTCCACTGTTTATTTTGGCCTTCACTGACTCTGCTA
GGTGGTGGCCTGATTGTTGGCATGGTGAGATTAAACACAACACCTGTCCTTACTGTGTGAAAAATATAGCACTGTA
20 GTCAGAGATGAGGTAGGTGGAAAAAGTACCTTATATAGAACAGCATCAGTTCAAACGTGTCATTATGAGGAGGAGC
AAAGGAAGAGCAGAGAAATCTTAA

BK beta 3 amino acid, SEQ ID NO:3

25 MAKLRVAYEYTEAEDKSIRLGLFLIISGVVSLFIFGFCWLSPALQDLQATEANCTVLSVQQIGEVFEFTFTCGAD
CRGTSQYPCVQVYVNNSESNRALLHSDEHQLLTNPKCSYIPCKRENQKNLESVMNWQQYWKDEIGSQPFTCYF
NQHQRPDDVLLHRTHDEIVLLHCFWPLVTFVVGVLIVVLTICAKSLAVKAEAMKKRKFS

BK beta 3 nucleic acid, SEQ ID NO: 4

30 ATGGCGAAGCTCCGGgTGGcttACGAGTACACGGAAGCCGAGGACAAGAGCATCCGGCTCGGCTTGTTCATC
ATCTCCGGCGTCGTGTCGCTCTTCATCTTCGGCTTCTGCTGGCTGAGTCCCGCGCTGCAGGATCTGCAAGCCACG
GAGGCCAATTGCACGGTGCTGTGCGTGCGAGCATCGGCGAGGTGTTGAGTGCACCTTCACCTGTGGCGCCGAC
TGCAGGGGCACCTCGCAGTACCCCTGCGTCCAGGTCTACGTGAACAACTCTGAGTCCAACCTCTAGGGCGCTGCTG
CACAGCGACGAGCACCAGCTCCTGACCAACCCCAAGTGCTCCTATATCCCTCCCTGTAAGAGAGAGAAATCAGAAG
AATTTGGAAAGTGTGATGAATTGGCAACAGTACTGGAAAGATGAGATTGGTTCAGCCATTACTTGCTATTTT
35 AATCAACATCAAAGACCAGATGATGTGCTTCTGCATCGCACTCATGATGAGATTGTCTCTCTGCTGCTTCTCCTC
TGGCCCTGGTGACATTTGTGGTGGGCGTTCTCATGTGGTCTGACCATCTGTGCCAAGAGCTTGGCGGTCAAG
GCGGAAGCCATGAAGAAGCGCAAGTTCTCTTAA

BK beta 4 amino acid, SEQ ID NO:5

40 MSIWTSGRITSSSYRHDEKRNIYQKIRDHLLDKRKTVTALKAGEDRAILLGLAMMVCSIMMYFLLGITLLRSYMQ
SVWTEESQCTLLNASITETFNCSFSCGPDCKWLSQYPCLOVYVNLTSSEKLLLYHTEETIKINQKCSYIPKCGK
NFEESMSLVNVVMENFRKYQHFSYSDPEGNQKSVILTKLYSSNVLFHSLFWPTCMMAGGVAIVAMVKLTQYLSL
LCERIQRINR

45

BK beta 4 nucleic acid, SEQ ID NO: 6

ATGTCGATATGGACCAGTGGCCGGACCTCTTCATCTTATAGACATGATGAAAAAAGAAATATTTACCAGAAAATC
AGGGACCATGACCTCCTGGACAAAAGGAAAACAGTCACAGCACTGAAGGCAGGAGAGGACCGACTATTCTCCTG
GGACTGGCTATGATGGTGTGCTCCATCATGATGTATTTTCTGCTGGGAATCACACTCCTGCGCTCATACATGCAG
50 AGCGTGTGGACCGAAGAGTCTCAATGCACCTTGCTGAATGCGTCCATCACGGAAACATTTAAYTGCTCCTTCAGC

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TGTGGTCCAGACTGCTGGAACTTTCTCAGTACCCCTGCCTCCAGGTGTACGTTAACCTGACTTCTTCCGGGGAA
AAGCTCCTCCTCTACCACACAGAAGAGACAATAAAAATCAATCAGAAGTGCTCCTATATACCTAAATGTGGAAAA
AATTTTGAAGAATCCATGTCCCTGGTGAATGTTGTCATGGAAAACCTCAGGAAGTATCAACACTTCTCCTGCTAT
TCTGACCCAGAAGGAAACCAGAAGAGTGTTATCCTAACMAAACTCTACAGTTCCAACGTGCTGTTCCATTCACTC
TTCTGGCCAACCTGTATGATGGCTGGGGGTGTGGCAATTGTTGCCATGGTGAACTTACACAGTACCTCTCCCTA
CTATGTGAGAGGATCCACGGATCAATAGATAA